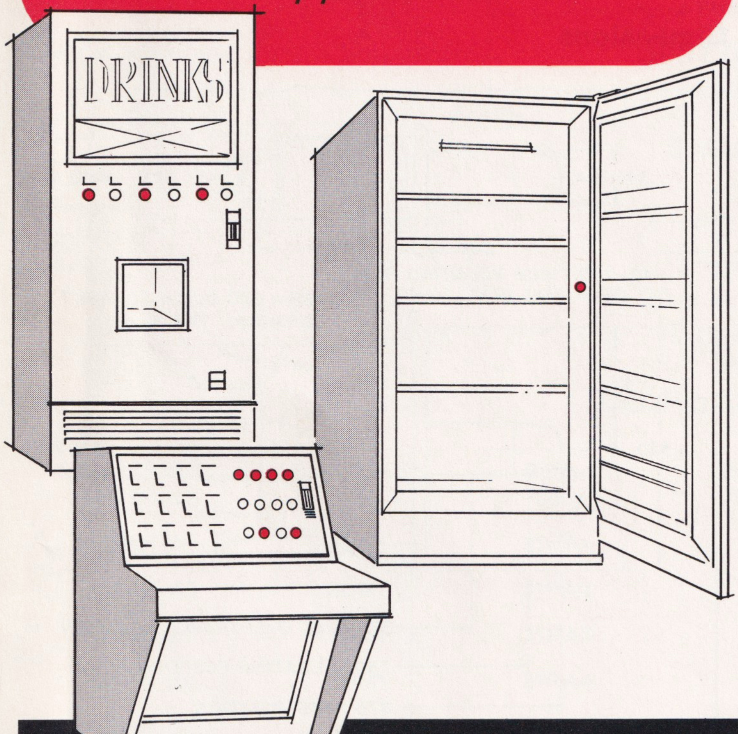
Data Sheet 191b

MICRO SWITCH
"DM"
Snap-in Panel Mount General Purpose Switches

for

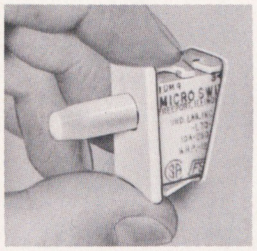
Data Processing Equipment
Business Machines
Vending Machines
Testing Devices
Photographic Equipment
Appliances



Features

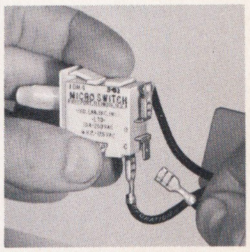
- Attractive appearance
- 6 Styles of operators in 2 colors
- For flush or overlay panel mounting
- Good pushbutton action or "tactile" feel
- Operator keyed with little side play
- Rugged
- Single-pole and double-pole circuitry
- High electrical capacity — 10 amps., 125 or 250 vac; 1/3 HP 125 or 250 vac.
- Highest quality materials and workmanship
- Underwriters' Laboratories listed
- Canadian Standards Association certified
- Plunger and case resist wear — won't corrode
- Pushbuttons and switches easily assembled

Easy Installation



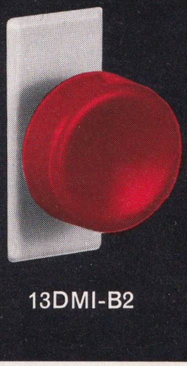
Snap-in front-of-panel mount

Adapts to panel thickness of .045 to .100 inch

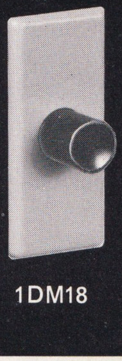


Can be wired and securely installed in seconds

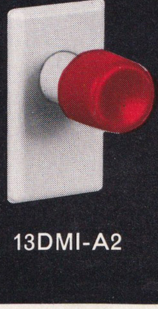
Quick connect terminals



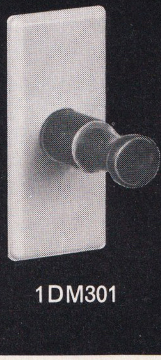
13DMI-B2



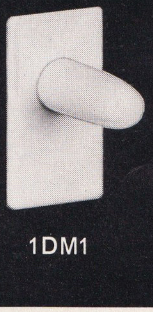
1DM18



13DMI-A2

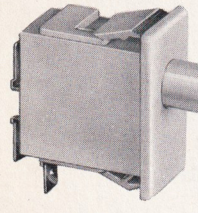


1DM301



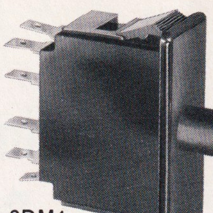
1DM1

Mechanically Actuated



1DM1
(SPDT)

Switches on this page are expressly designed for mechanical actuation and have convex tipped plungers. Typical applications are door-operated light switch on appliances and as interlocks on doors and drawers. Single-pole double-throw or double-pole double-throw contact arrangements are standard in the "DM" switches listed in this data sheet. Operating forces — SPDT 15 oz. max. DPDT 24 oz. max. Special application requirements should be referred to your nearest MICRO SWITCH Branch Office.



2DM4
(DPDT)

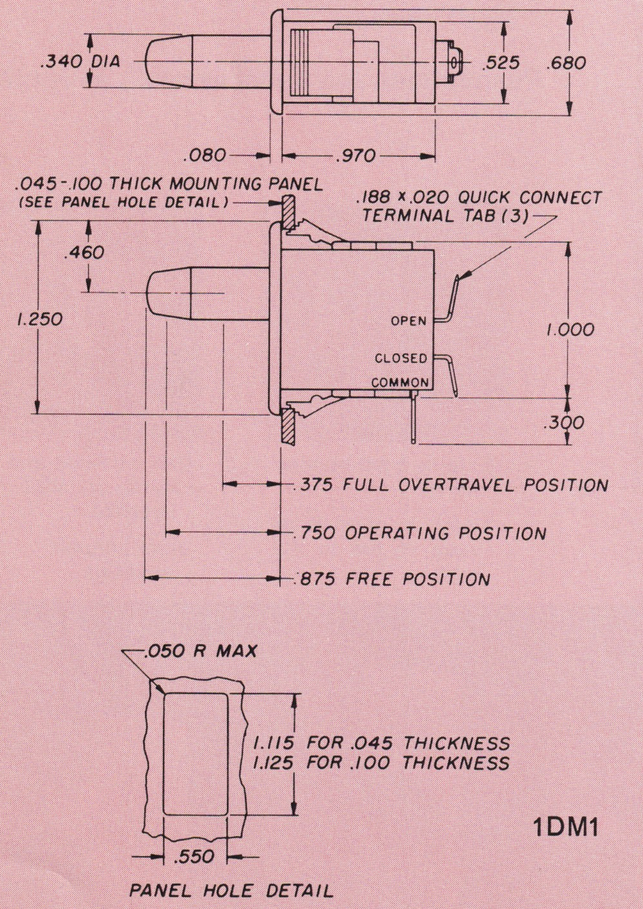
1DM21 is identical to the 1DM1 except for a shorter plunger which gives a .45 inch free position from the mounting surface as compared to .875 inch free position for the 1DM1 listing.

All single-pole double-throw "DM" switches have the same mounting dimensions behind the panel as Catalog Listing 1DM1. All double-pole double-throw "DM" switches have the same mounting dimensions behind the panel as Catalog Listing 2DM4.

Characteristics	1DM1	1DM21	2DM4
Pretravel	.125 in. max.	.125 in. max.	.125 in. max.
Overtravel	.375 in. min.	.235 in. min.	.250 in. min.
Operating Force	15 oz. max.	15 oz. max.	24 oz. max.
Release Force	3 oz. min.	3 oz. min.	6 oz. min.
Differential Travel	.045 in. max.	.045 in. max.	.075 in. max.*

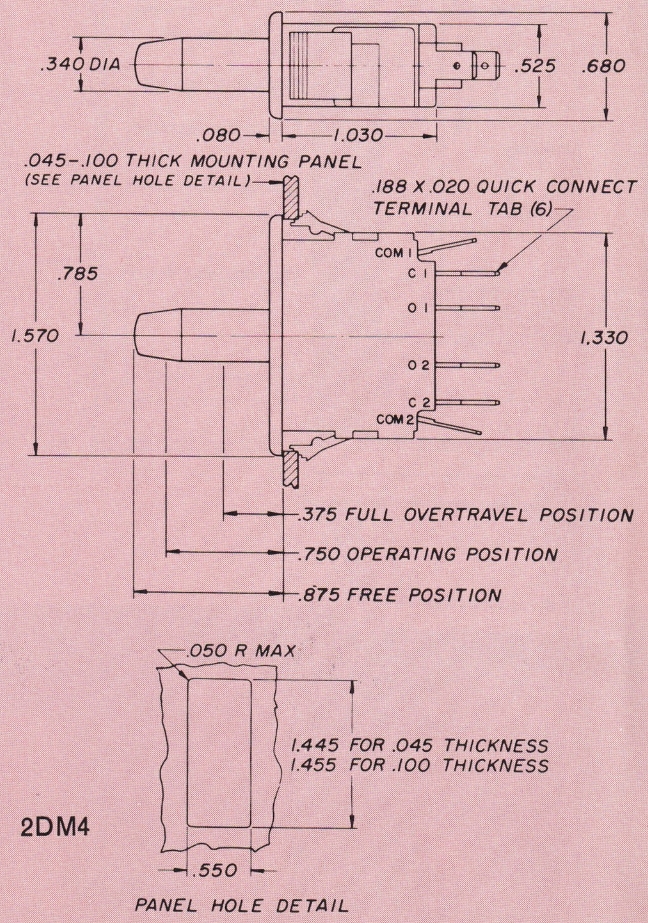
* These characteristics differ from those of the 1DM1 because the two circuits of the 2DM4 do not operate simultaneously.

Mounting Dimensions



.340 DIA
.525
.680
.080
.970
.045-.100 THICK MOUNTING PANEL
(SEE PANEL HOLE DETAIL)
.188 x .020 QUICK CONNECT TERMINAL TAB (3)
.460
1.250
OPEN
CLOSED
COMMON
1.000
.300
.375 FULL OVERTRAVEL POSITION
.750 OPERATING POSITION
.875 FREE POSITION
.050 R MAX
1.115 FOR .045 THICKNESS
1.125 FOR .100 THICKNESS
.550
PANEL HOLE DETAIL

1DM1



.340 DIA
.525
.680
.080
1.030
.045-.100 THICK MOUNTING PANEL
(SEE PANEL HOLE DETAIL)
.188 X .020 QUICK CONNECT TERMINAL TAB (6)
COM 1
C 1
O 1
O 2
C 2
COM 2
.785
1.570
1.330
.375 FULL OVERTRAVEL POSITION
.750 OPERATING POSITION
.875 FREE POSITION
.050 R MAX
1.445 FOR .045 THICKNESS
1.455 FOR .100 THICKNESS
.550
PANEL HOLE DETAIL

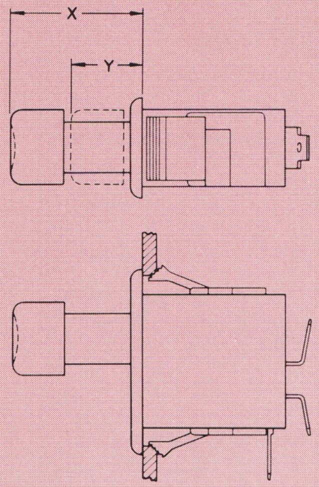
2DM4

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE;
CURRENT DRAWINGS WILL BE SUPPLIED ON REQUEST

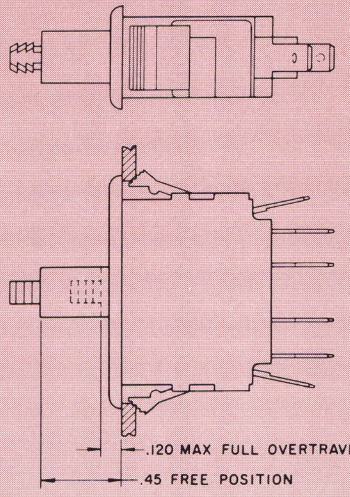
Manually Actuated

Switches on this page are designed expressly for manual actuation and have concave tipped pushbutton actuators. The 3 style pushbuttons as well as the 2 basic switch modules may be purchased separately or assembled. The basic switch units will take any style button which fits the plunger shaft of the switch. Mounting dimensions on page 2 — 3DM1 same as 1DM1 and 4DM1 same as 2DM4.

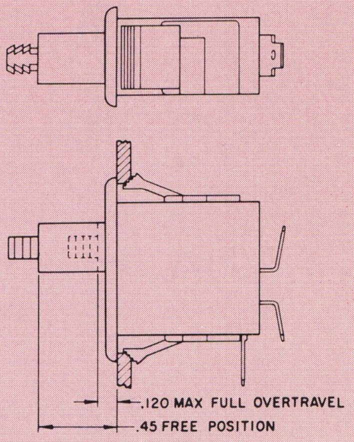
Basic Switch with Button



Basic Switch Without Button

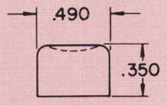


DPDT (4DM1)

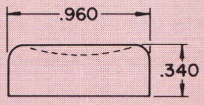


SPDT (3DM1)

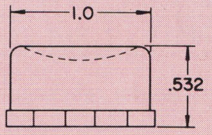
Buttons



Type A



Type B



Type C

Catalog Listings

Basic Switch and Button	Basic Switch Only †	Button Only	Button Style	Button Color	Free Position *X (inches)	Maximum Over-travel *Y (inches)
13DM1-A1	3DM1	31PA1	A	Black	.80	.485
13DM1-A2	3DM1	31PA2	A	Red	.80	.485
13DM1-B1	3DM1	31PA3	B	Black	.79	.475
13DM1-B2	3DM1	31PA4	B	Red	.79	.475
13DM1-C1	3DM1	31PA5	C	Black	.98	.672
13DM1-C2	3DM1	31PA6	C	Red	.98	.672
14DM1-A1	4DM1	31PA1	A	Black	.80	.485
14DM1-A2	4DM1	31PA2	A	Red	.80	.485
14DM1-B1	4DM1	31PA3	B	Black	.79	.475
14DM1-B2	4DM1	31PA4	B	Red	.79	.475
14DM1-C1	4DM1	31PA5	C	Black	.98	.672
14DM1-C2	4DM1	31PA6	C	Red	.98	.672

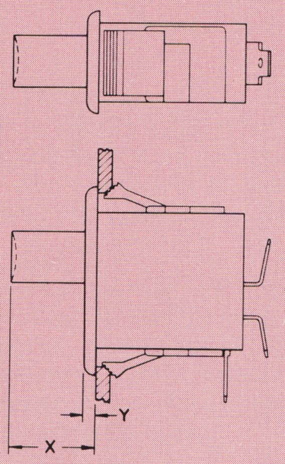
†3DM1 are single-pole double throw and the 4DM1 are double-pole double-throw.

*Dimensions shown are for reference only and are subject to change without notice.

Manually Actuated

Short Plunger

Shorter, integral plunger with a concave tip. Choice of red or black plungers. Operating forces — SPDT 15 oz. max. DPDT 24 oz. max.

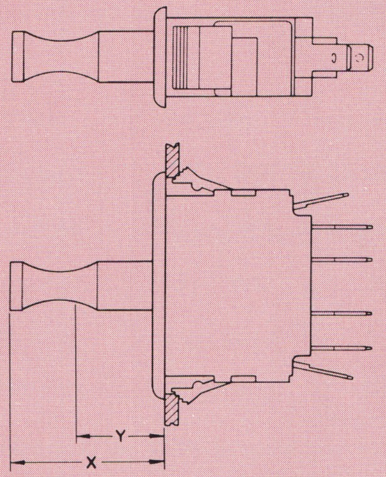


SINGLE-POLE DOUBLE-THROW SHOWN

Catalog Listing	Circuitry	Button Color	Free Position *X(in)	Max. over-travel *Y(in)
1DM18	SPDT	Black	.45	.120
1DM19	SPDT	Red	.45	.120
2DM5	DPDT	Black	.45	.120
2DM6	DPDT	Red	.45	.120

Alternate Action (Push-Pull)

Switch remains closed when plunger is pushed in and opens when plunger is pulled out. Black plungers only. Operating forces — SPDT 15 oz. max. DPDT 24 oz. max.

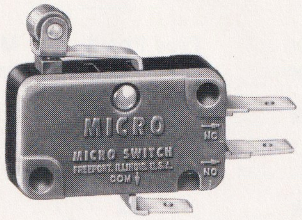


DOUBLE-POLE DOUBLE-THROW SHOWN

Catalog Listing	Circuitry	Free Position *X(in)	Max. over-travel *(Y) (in)
1DM301	SPDT	.960	.625
2DM301	DPDT	.950	.625

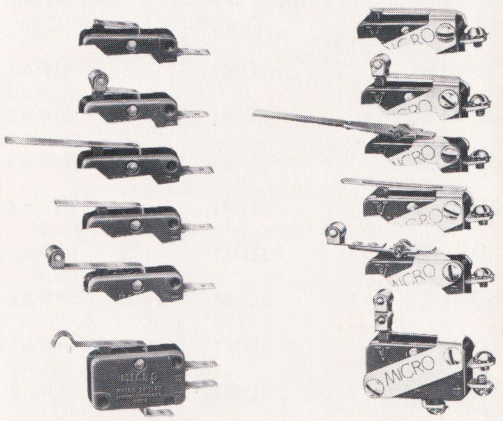
* Dimensions shown are for reference only and are subject to change without notice.

MICRO SWITCH High Capacity "V3" Series



Small high capacity switches that are available in a wide variety of terminals, circuitry, actuators and assemblies. "V3" switch applications include aircraft, industrial equipment, appliances, vending and business machines. Write for Catalog 63 or call our Branch Office nearest you (see Yellow Pages).

COMPLETE SELECTION OF ACTUATORS



MICRO SWITCH
FREEPORT, ILLINOIS, U.S.A.
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IN CANADA: HONEYWELL CONTROLS LIMITED, TORONTO 17, ONTARIO

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